Pre-Algebra Name_____
Ch. 3 Test
Basic Equations and Inequalities

A. Solve each equation.

1. 16 + y = 11

2. x – 9 = 6(-2)

3. 9n = 36

4. x/(-4) = 12

5. 3x + 4 = 19

6. $\frac{x+4}{7}=8$

B. Write the word sentence as an equation AND solve it.

1. Six times the sum of a number and -3 is 48.

2. A number divided by -10, increased by 8, is -4.

C. Write an equation for the word problem and solve it.

1. A school bought 30 student uniforms and 2 teacher jackets, which were twice as expensive. If the school spent a total of $1,020 for the clothes, how much did one teacher jacket cost?

Pre-Algebra Name_____
Ch. 3 Test
Basic Equations and Inequalities

D. Graph each inequality.
   1. $x \leq 6$

   2. $x > -2$

E. Solve each one-step inequality.
   1. $8x \geq 16$

   2. $15 \leq -5x$

   3. $x \div -6 > -10$

F. Write an inequality for the word problem and solve it.
   1. Jen has 8 fewer shoes than Mary. Together they have more than 28. How many does Mary have?